Tuesday, 07/11/2006 9:10:48 AM

User:

Linda Lacelle

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 29369

Estimate Number

: 12566 11 AIA:

P.O. Number This Issue

: 07/11/2006

S.O. No. : NA

Туре : LANDING GEAR

First Issue : NIA **Previous Run**

Written By

Checked & Approved By

Comment

Prsht Rev.

: Est. Rev.A New Issue LL

Part Number

: D6019128 : D6019 REV.A

: CROSSTUBE MATERIAL

Drawing Number Project Number

Drawing Name

: N/A **Drawing Revision**

Material **Due Date** : NIA : 10/12/2006

Qty:

33 Um:

Each

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

CLOG 11107

1.0 PG



PURCHASING



Comment: PURCHASING

Issue P/0:_2429

a) Order as per Dwg D6019

b) Material: 2.750 x 0.313 wall 7075-T6/T6511 (WW-T-700/7 or QQ-A-225/9 or QQ-A-200/11) seamless aluminum tube

- c) Minimum ultimate tensile strength = 77 ksi
- d) Minimum tensile yield strength = 66 ksi
- e) Tolerance are per ASTM B210 (see details on Dwg D6019)
- f) Material certification required

2.0

3.0

D6019128

Crosstube Material



Comment: Qty.:

1.0000 Each(s)/Unit Total:

33.0000 Each(s)



Crosstube Material



PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage Ensure material certification is attached Boulia



4.0

QC6

DIMENSIONAL CHECK Ë



Comment: DIMENSIONAL CHECK

Ensure Material certification comply to Dwg D6005



MS

Dart Aerospace Ltd

W/O:	rospace i		WORK ORDER CHANGES										
DATE	STEP	i	PRO		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
		l L											
							,						
		.											
Part No):		PAR #:	Fault Category:	NCF	R: Yes	No DQ	A: 2	<u>∆</u> Date: <u>⟨</u>	37/0//11			
		1				QA:	N/C Close	d:	Date: _				

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description	of NC		Corrective Action	Section B	Verification	Approval	Ammanal				
DATE	STEP	Section		Initial Chief Eng	Action Descrip Chief Eng	tion Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector				
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NOTE: Date & initial all entries

Daté: Tuesday, 07/11/2006 9:10:48 AM User: Linda Lacelle **Process Sheet** Drawing Name: CROSSTUBE MATERIAL Customer: CU-DAR001 Dart Helicopters Services Part Number: D6019128 Job Number: 29369 Job Number: Description: Seq. #: **Machine Or Operation:** HAND FINISHING RESOURCE #1 HAND FINISHING1 5.0 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVE 6.0 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION PACKAGING RESOURCE #1 7.0 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: M9T QC21 8.0 Comment: FINAL INSPECTION/W/O RELEASE Lo7/alu Job Completion

Dart Aerospace

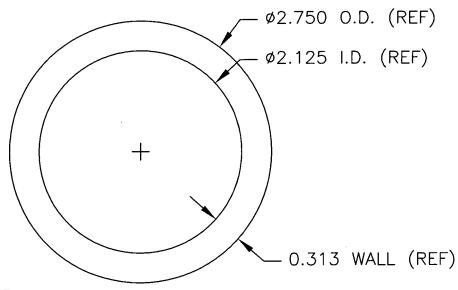
Dart Ae	rospace L	.td								
W/O:				WC	RK ORDER CHANG	ES			***************************************	
DATE	STEP		PR	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
		; 								
Part No:			PAR #:	Fault Cateç	jory:	_ NCR: Yes	No DQ	A:	Date:	
					•	QA: N	/C Close	d:	_ Date: _	
NCR:				WORK ORDE	R NON-CONFORM	ANCE (NCR	2)			
		Des	cription of NC	ion B	Verifi	cation	Approval	Approval		
DATE	STEP		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		ion C	Chief Eng	QC Inspector
		ĺ	<u> </u> 							
			<u> </u> 							
			; . 							

NOTE: Date & initial all entries



DESIG	" P	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHEC	KED	APPROVED	DRAWING NO. REV.	Α
			D6019 SHEET 1 OF	- 1
DATE		<u> </u>	TITLE SCA	LE
06.1	11.03		CROSSTUBE MATERIAL	1:1
Α		06.11.03	NEW ISSUE	

SPECIFICATION CONTROL DRAWING



NOTES

1) D6019-XXX CROSSTUBE LENGTH

WHERE XXX IS LENGTH IN INCHES EG. 128" LONG TUBE: D6019-128

2) MATERIAL: 2.750 OD x 0.313 WALL 7075–T6/T6511 (WW–T–700/7 OR QQ–A–225/9 OR QQ–A–200/11) SEAMLESS ALUMINUM TUBE.

MINIMUM ULTIMATE TENSILE STRENGTH = 77 ksi MINIMUM YIELD TENSILE STRENGTH = 66 ksi

3) TOLERANCES ARE PER ASTM B210 AS FOLLOWS:

O.D.: ± 0.006 MEAN (±0.012 INCLUDING OVALITY)

WALL: ±0.015 MEAN (±0.038 INCLUDING ECCENTRICITY)

LENGTH: XXX +0.125/-0.000

STRAIGHTNESS: 0.010" DEVIATION / 12" LENGTH

- 4) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 5) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

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Abnahmeprüfzeugnis 3.1 - EN 10204:2004

Inspection Certificate 3.1 - EN 10204:2004 | Certificat de Reception 3.1- EN 10204:2004

Kunde:

Dart Aerospace Ltd.

Zeuanisnummer: Cert No.: / No. du certificat: 1293/06

Client:

1270 Aberdeen Street

Bestellnummer:

PO 00002429

Hawkesbury, ON K6A1K7

Canada

Order No. / No. de commande

Produkt:

Rohre nahtlos gepresst

Auftrag:

21845/1

Product / Produit:

Tubes seamless extruded

Our Reference/Notre Reference:

Spezifikation:

AMS - QQ - A - 200/11E; Spezifikation Dart Aerospace D6007

Specification:

7075

Zustand:

T 6511

Werkstoff: Alloy/Alliage:

Abmessung Size / Dimension

x 2,124 INCH x 0,313 INCH x 128,000 INCH 2.750 INCH

Temper/État

D6019-128 2.750 X 0.313 X 128

Kennzeichnung Marking/Marquage:

ALUnna - Cert No. 1293/06 - 7075 - T 6511 - Cast No. 6797 - AMS - QQA 200/11 - 2.750" OD X 0.313" Wall - Heat

No. 816/11 - Lot 21845/1 - PO. 00002429

Lieferuna

pcs.

lbs

Country of Manufacture: Germany

Delivered Material / Matérial délivre:

29

902

Chemical Analysis / analyse chimique 1 Chemische Analyse

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Zr	Bi	Sn	Ni
Charge/ min.			1,2	1	2,1	0,18	5,1					·	
Cast No. max.	0,40	0,50	2,0	0,30	2,9	0,28	6,1	0,20					
6797/06	0,110	0,209	1,375	0,052	2,503	0,192	5,793	0,036	0,004	0,0222	0,0001	0,0014	0,0003

Hydrogen content:

0,11

ccm/100 g Al

Elements without indication < 0,01 %

Figure triality at the second					The second second second second second
2 Machanische	Finenschaften	Mechanical	Properties /	/ Valeurs	Mécaniques

Anforderungen Requirements min. max.	tensile (Rm) ksi 77,0	yield (Rp0,2) ksi 66,0	elongation 2" %	elongation A %	Hardness HB	Heat No.
1	86,420	78,735	11,0		171	816/11 - 29 pcs.
		·				

RMS: außen 25 - max. 17 u"

Ergebnis der Prüfungen:

Test results:

Resultats:

Es wird bestätigt, daß die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellannahme

We confirm that the delivery has been tested and applies to the agreements made on receipt of the order

Nous confirmons que la livraison a été controlée et correspond avec les conventions faites à la réception de la commande

KroosD

Certified acc. to DIN EN ISO 9001:2000, valid until 2009-03-27 Certificate No.: 001959 QM

Abnahmebeauftragter

11.12.2006

Aluminiumwerk Unna AG, Uelzener Weg 36, 59425 Unna, Germany

Packinglist ALUnna AG

Customer PO	PO. 00002429
ALUnna ref. no.	21845/1
Date:	12.08.06

Boxmarking:

Dart Aerospace PO. 00002429

D6019-128 Made in Germany

Dest. Hawkesbury Ont., Canada

We hereby declare that the wooden packing material are totally free from bark and apparently

e from li	ve plant p	ests									Boxdimension				
tem no.		OD (inch)	ID (inch)	Wall (inch)	Net Weight (lbs)	Tare lbs	Gross Weight	Pieces	lengths (ft)	Lengths (inch)	Width (inch)	height (inch)			
1	1	2,750	2,124	0,313	902	255	1156	29	11	151,575	22,047	22,441			
							4								
 															
				.,											
															
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	†	+	 												
	1	1		1	902	255	1156	29			 	1,22			

1) consignee HAWKESBURY

customer 40980

2) order no./item: 218450000/

3) purchase order: PO 00002429

4) delivery note: no/item 00000/00

5) article/size : 21755

no: 77363/ 69,85

MM 6) alloy D6019-128 2.750 X 0.313 X 128 EN AW-7075

7) quantity 7075

piece: 00029 length: 3251

8) packing

Holzkiste 9) packing

weight note: 039402

10)information

11)questions 12) supplier Tel:49-2303/206-0 Aluminiumwerk Unna AG date : 00.00.00

53,95 MM 3.251,00 MM

made in Germany cast no

date : 08.12.2006

KG/net : 409,000 KG/gross : 524,50

number 0001

case no. : 1

Fax: 49-2303/206-155 Uelzener Weg 36 59425 Unna



DART AEROSPACE LTD. 1270 Aberdeen Street CDN K6A 1K7 HAWKESBURY ON

Kanada

Aluminiumwerk Unna AG Uelzener Weg 36 D-59425 Unna Postfach 11 46 D-59401

> fon +49 (0) 23 03-206 - 0 fax +49 (0) 23 03-206-116

> Petra@aluminiumwerk.com www.aluminiumwerk.com

page:

1

date:

11.09.2006

customer

40980

order confirmation

21845

Tel.:

Fax:

your PO dated: your PO No :

your ref.:

11.07.2006

PO 00002429 Linda Lacelle

contact: Petra Eisenblätter

+(303) 755 5672

+(303) 755 5936

representative: CLAUS J. BETTER

We supply acc. to our delivery terms and conditions:

item	quantity	unitpri	ce USD	unit	value	USD	delivery	
001	33 000	PC	307 75	PC	10.	155,75	December 15,	2006

AWU article: 21755 / Tariff no. 76082081

Customer article: D6019-128 2.750 X 0.313 X 128

product: TUBES / seamless extruded / EN AW-7075 / round

condition: T 6511 / AMS-QQ-A-200/11

 outer diameter:
 2,750 INCH Tol.
 +0,012 -0,012 +0,006

 tol.for mean OD inner diameter:
 2,124 INCH **

 wall-thickness:
 0,313 INCH Tol.
 +0,031 -0,031 +0,031 +0,125

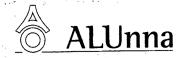
 fixed length
 128,000 INCH Tol.
 +0,125

inspection cert.acc. to EN10204/3.1 / RM 531 / Rp0,2: 455 straightness 0,01 INCH / 1 FEET / RMS outer 25 tol. on quantity +10 % -10 % 2.750" OD 0.313"Wall, 128" lengths
Part Number D6019-128 crosstube
Surface Finish max. RMS 25
Tolerances per ASTM B210 / your drawing D6019

Commerzbank AG, Unna Konto-Nr. 102 56 00 BLZ 443 400 37 S.W.I.F.T. - Code: COBADE FF. 443 IBAN: DE 90 4434 0037 01025600 00

Sitz der Gesellschaft: Unna Amtsgericht Hamm. HRB 3045

Vorstand: Volker Findeisen (Vors.)
Thomas Wiese
Vorsitzende des Aufsichtsrats: Irene Wiese



order confirmation

21845

page:

2

date: customer 11.09.2006

Tubes protected with corrosion protective oil

Tubes line marked

terms of delivery:

Packing:

seaworthy wooden cases

FOB German Airport

Terms of payment:

30 days after date of delivery

delivery address:

Dart Aerospace Ltd.

1270 Aberdeen Street

CDN Hawkesbury, ONT, K6A1K7

Kanada

BS



DART AEROSPACE LTD. 1270 Aberdeen Street CDN K6A 1K7 HAWKESBURY ON Kanada

Aluminiumwerk Unna AG Uelzener Weg 36 · D-59425 Unna Postfach 11 46 · D-59401

> fon +49 (0) 23 03-206 - 0 fax +49 (0) 23 03-206-116

Petra@aluminiumwerk.com www.aluminiumwerk.com

page:

1

date:

12.11.2006

customer

40980

invoice

30312

your PO dated:

11.07.2006

contact:

Petra Eisenblätter

your PO No.:

PO 00002429

Tel.:

+(303) 755 5672

confirmation No.: Delivery note:

21845

Fax:

+(303) 755 5936

0029662 11.12.2006

representative: CLAUS J. BETTER

Tax code

316/5702/0535

We supply acc. to our delivery terms and conditions:

item	quantity	unitprice	USD	unit	value USD
001	29 000	PC 30	7.75	PC	8.924,75

AWU article: 21755 / Tariff no. 76082081

Customer article: D6019-128 2.750 X 0.313 X 128

product: TUBES / seamless extruded / EN AW-7075 / round

condition: T 6511 / AMS-QQ-A-200/11

-0,300 69,850 mm +0,300 Tol. outer diameter: +0,150 -0,150tol.for mean OD 53,950 mm inner diameter: +0,800 -0,800 Tol. wall thickness: 7,950 mm +3,175 Tol. 3251,000 mm fixed length

inspection cert.acc. to EN10204/3.1 / RM 531 / Rp0,2: 455 straightness 0,25 mm / 304,8 mm / RMS outer 25 tol. on quantity +10 % -10 % 2.750" OD 0.313"Wall, 128" lengths Part Number D6019-128 crosstube Surface Finish max. RMS 25

carried forward:

8.924,75

Commerzbank AG, Unna Konto-Nr. 102 56 00 BLZ 443 400 37. S.W.I.F.T. - Code: COBADE FF 443 IBAN : DE 90 4434 0037 01025600 00

Sitz der Gesellschaft: Unna Amtsgericht Hamm. HRB 3045

Vorstand: Volker Findeisen (Vors.) Thomas Wiese Vorsitzende des Aufsichtsrats: Irene Wiese



invoice

30312

page:

date: customer 12.11.2006 40980

Tolerances per ASTM B210 / your drawing D6019 Tubes protected with corrosion protective oil

Tubes line marked

Packing:

seaworthy wooden cases

terms of delivery: FOB German Airport

Terms of payment:

30 days after date of delivery

delivery address:

DART AEROSPACE LTD. 1270 Aberdeen Street CDN Hawkesbury, ONT, K6A1K7 Kanada

goods value:

8.924,75

total:

8.924,75

weight:

gross

524,50

net

409,00

export exempt from tax - Country of origin: Germany



DART AEROSPACE LTD. 1270 Aberdeen Street CDN K6A 1K7 HAWKESBURY ON Kanada

Aluminiumwerk Unna AG Uelzener Weg 36 · D-59425 Unna

Postfach 11 46 · D-59401

fon +49 (0) 23 03-206 - 0 fax +49 (0) 23 03-206-116

Petra@aluminiumwerk.com www.aluminiumwerk.com

page:

1

date:

12.11.2006

customer

40980

invoice

30312

your PO dated:

11.07.2006

contact:

Petra Eisenblätter

your PO No.:

PO 00002429

Tel.:

+(303) 755 5672

confirmation No.:

21845

Fax:

+(303) 755 5936

Delivery note:

0029662 11.12.2006

representative: CLAUS J. BETTER

316/5702/0535

We supply acc. to our delivery terms and conditions:

quantity unitprice USD item

value

USD

001

29,000

307,75 PC 8.924,75

AWU article: 21755 / Tariff no. 76082081

Customer article: D6019-128 2.750 X 0.313 X 128

product: TUBES / seamless extruded / EN AW-7075 / round

condition: T 6511 / AMS-QQ-A-200/11

outer diameter:

Tol. 69,850 mm

+0,300 -0,300

tol.for mean OD

+0,150

-0,150

inner diameter:

53,950 mm

wall thickness:

7,950 mm Tol.

-0,800 +0,800

fixed length

Tol. 3251,000 mm

+3,175

inspection cert.acc. to EN10204/3.1 / RM 531 / Rp0,2: 455

straightness 0,25 mm / 304,8 mm / RMS outer 25

tol. on quantity +10 % -10 %

2.750" OD 0.313"Wall, 128" lengths

Part Number D6019-128 crosstube

Surface Finish max. RMS 25

carried forward:

8.924,75

Commerzbank AG, Unna Konto-Nr. 102 56 00 BLZ 443 400 37 S.W.I.F.T. - Code: COBADE FF 443 IBAN : DE 90 4434 0037 01025600 00

Sitz der Gesellschaft: Unna Amtsgericht Hamm. HRB 3045

Vorstand: Volker Findeisen (Vors.) Thomas Wiese Vorsitzende des Aufsichtsrats: Irene Wiese



invoice

30312

page:

2

date: customer 12.11.2006

Tolerances per ASTM B210 / your drawing D6019 Tubes protected with corrosion protective oil

Tubes line marked

Packing:

seaworthy wooden cases

terms of delivery:

FOB German Airport

Terms of payment:

30 days after date of delivery

delivery address:

DART AEROSPACE LTD. 1270 Aberdeen Street CDN Hawkesbury, ONT, K6A1K7

Kanada

goods value: total: 8.924,75

8.924,7

weight:

gross

524,50

net

409,00

export exempt from tax - Country of origin: Germany

DART AEROSPACE LTD. 1270 Aberdeen Street CDN Hawkesbury, ONT, K6A1K7 Kanada

Aluminiumwerk Unna AG Uelzener Weg 36 · D-59425 Unna Postfach 11 46 · D-59401

fon +49 (0) 23 03-206 - 0 fax +49 (0) 23 03-206- 116

info@alu-unna.de www.alu-unna.de

page: 11.12.2006 date:

40980 customer

delivery note

29662

your PO dated:

7.11.2006

contact:

Petra Eisenblätter

your PO No.:

PO 00002429

Tel.:

+(303) 755 5672 +(303) 755 5936

confirmation No.:

21845

Fax:

representative: CLAUS J. BETTER

CARRIER:

Senator International Sæour VAT No.:

AWU VAT No.:

DE177869055

Country of origin: Germany

We supply acc. to our delivery terms and conditions:

net kgs item quantity unit

PC 29,000 001

AWU article: 21755 / Tariff no. 76082081

Customer article: D6019-128 2.750 X 0.313 X 128

product: TUBES / seamless extruded / EN AW-7075 /

condition: T 6511 / AMS-QQ-A-200/11 2,750 INCH Tol.

outer diameter: tol.for mean OD

-0,012 +0,012 -0,006 +0,006

-0,031

inner diameter:

2,124 INCH

+0,031

0,313 INCH Tol. wall thickness: 128,000 INCH Tol.

fixed length inspection cert.acc. to EN10204/3.1 / RM 531 / Rp0,2:

straightness 0,01 INCH / 1 FEET / RMS outer 25

tol. on quantity +10 % -10 %

2.750" OD 0.313"Wall, 128" lengths

Part Number D6019-128 crosstube

Surface Finish max. RMS 25

Tolerances per ASTM B210 / your drawing D6019 Tubes protected with corrosion protective oil

Tubes line marked

Packing:

seaworthy wooden cases

Commerzbank AG, Unna Konto Nr. 102 56 00 BLZ 443 400 37 S.W.I.F.T. - Code: COBADE FF 443 IBAN: DE 90 4434 0037 01025600 00

Sitz der Gesellschaft: Unna Amtsgericht Hamm, HRB 3045

Vorstand: Volker Findeisen (Vors.), Thomas Wiese Vorsitzende des Aufsichtsrats: Irene Wiese



delivery note 29662

page: 2
date: 11.12.2006

customer

40980

number of packages: number of pieces:

Terms of payment: 30 days after date of delivery

29

terms of delivery: FOB German Airport

weight: gross 524,500 net 409,000

Packstücke

Customer address:
DART AEROSPACE LTD.
1270 Aberdeen Street
CDN K6A 1K7 HAWKESBURY

ON Kanada



DART AEROSPACE LTD. 1270 Aberdeen Street CDN Hawkesbury, ONT, K6A1K7 Kanada

Aluminiumwerk Unna AG Uelzener Weg 36 · D-59425 Unna · Postfach 11 46 · D-59401

> fon +49 (0) 23 03-206 - 0 fax +49 (0) 23 03-206- 116 info@alu-unna.de www.alu-unna.de

page: date:

customer

11.12.2006 40980

delivery note

29662

your PO dated:

7.11.2006

contact:

Petra Eisenblätter

your PO No .:

PO 00002429

Tel.:

+(303) 755 5672

confirmation No.:

21845

Fax:

+(303) 755 5936

representative: CLAUS J. BETTER

CARRIER:

Senator International Seour VAT No.:

AWU VAT No.:

DE177869055

Country of origin: Germany

We supply acc. to our delivery terms and conditions:

item quantity unit net kgs

29,000 PC

AWU article: 21755 / Tariff no. 76082081

Customer article: D6019-128 2.750 X 0.313 X 128

product: TUBES / seamless extruded / EN AW-7075 / round

condition: T 6511 / AMS-QQ-A-200/11

outer diameter:

2,750 INCH Tol.

+0,012 -0,012

tol for mean OD

2,124 INCH

+0,006 -0,006

inner diameter: wall thickness:

0,313 INCH Tol.

+0,031

fixed length

128,000 INCH Tol.

-0,031

inspection cert.acc. to EN10204/3.1 / RM 531 / Rp0,2: 455

straightness 0,01 INCH / 1 FEET / RMS outer 25

tol. on quantity +10 % -10 %

2.750" OD 0.313"Wall, 128" lengths

Part Number D6019-128 crosstube

Surface Finish max. RMS 25

Tolerances per ASTM B210 / your drawing D6019 Tubes protected with corrosion protective oil

Tubes line marked

Packing:

seaworthy wooden cases

Commerzbank AG, Unna Kento-Nr. 102 56 00 BLZ 443 400 37 S.W.I.F.T. - Code: COBADE FF 443 IBAN: DE 90 4434 0037 01025600 00 Sitz der Gesellschaft: Unna

Amtsgericht Hamm, HRB 3045

Vorstand: Volker Findeisen (Vors.), Thomas Wiese Vorsitzende des Aufsichtsrats: Irene Wiese



delivery note

29662

page:

date: customer 40980

number of packages:

number of pieces:

Terms of payment: terms of delivery:

30 days after date of delivery

FOB German Airport

weight:

gross

524,500

net

Packstücke

customer address: DART AEROSPACE LTD. 1270 Aberdeen Street CDN K6A 1K7 HAWKESBURY

Kanada